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FIG. 1

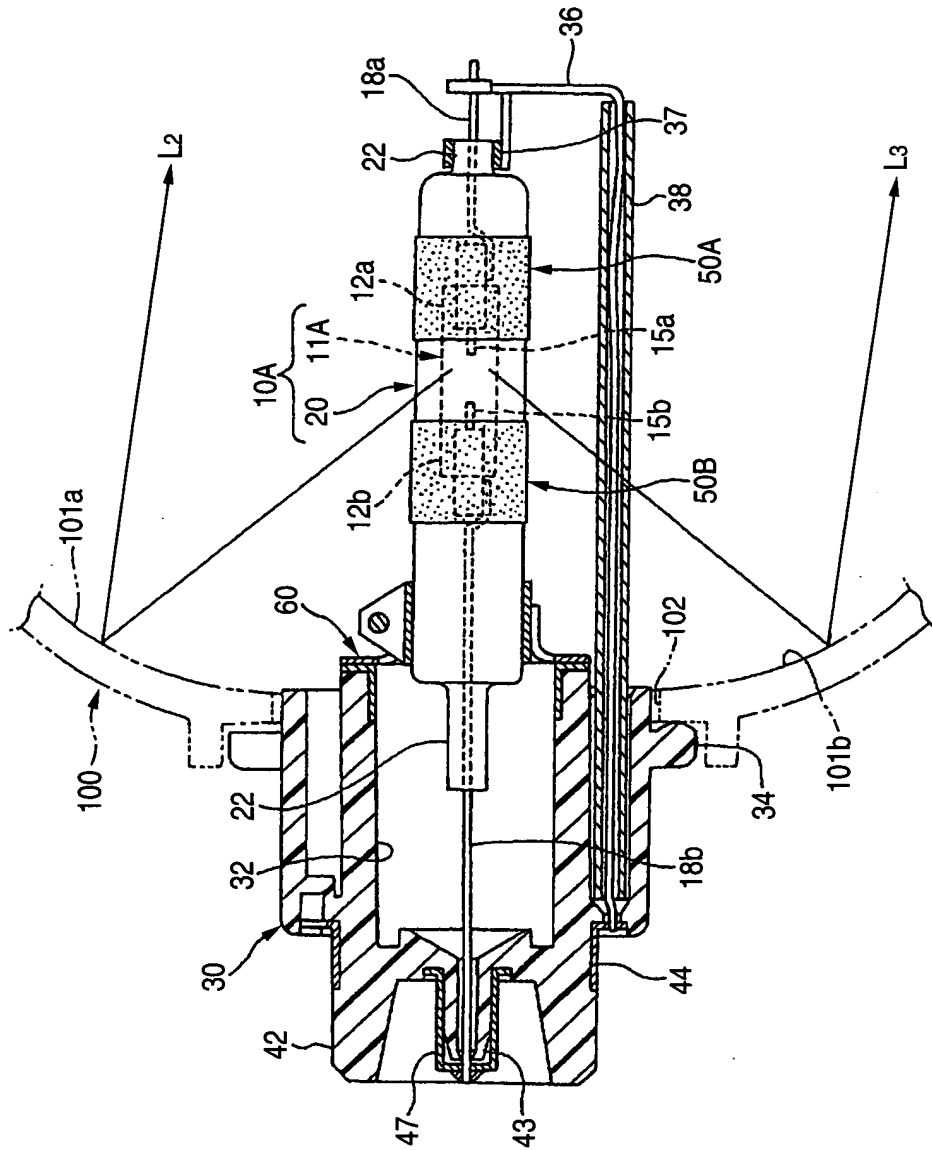


FIG. 2

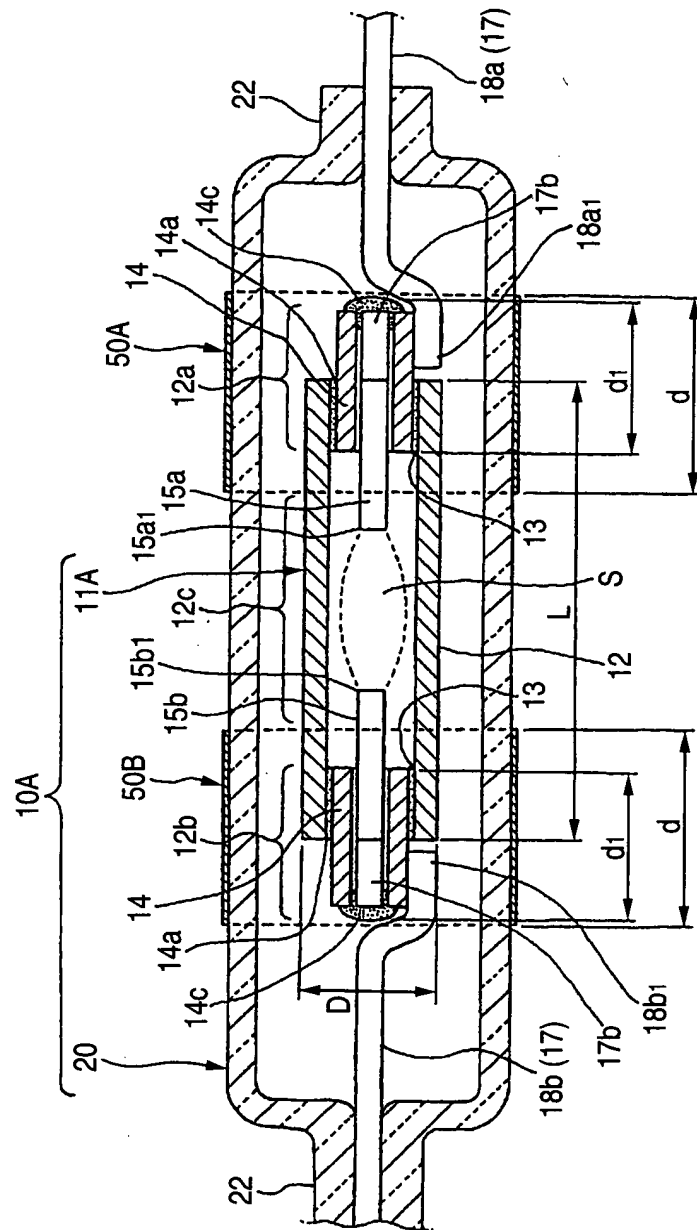


FIG. 3

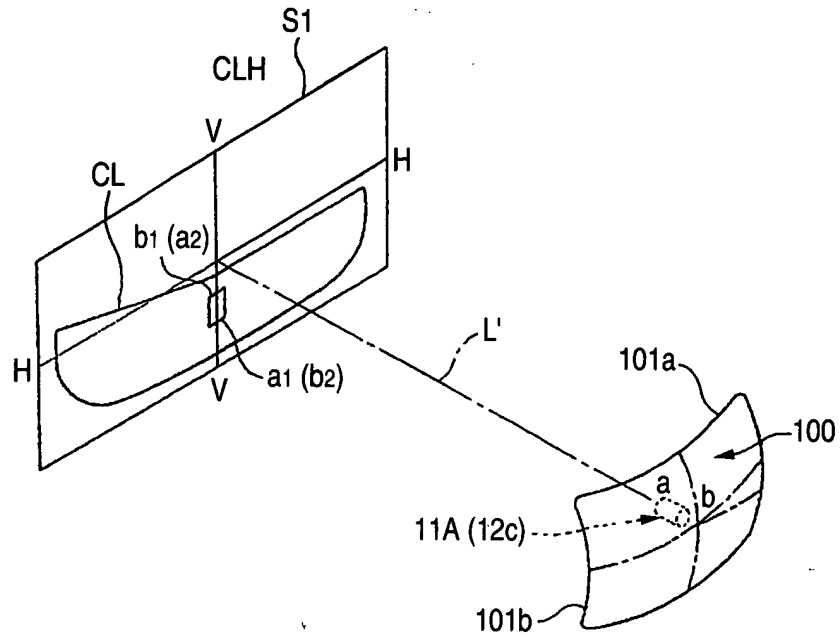
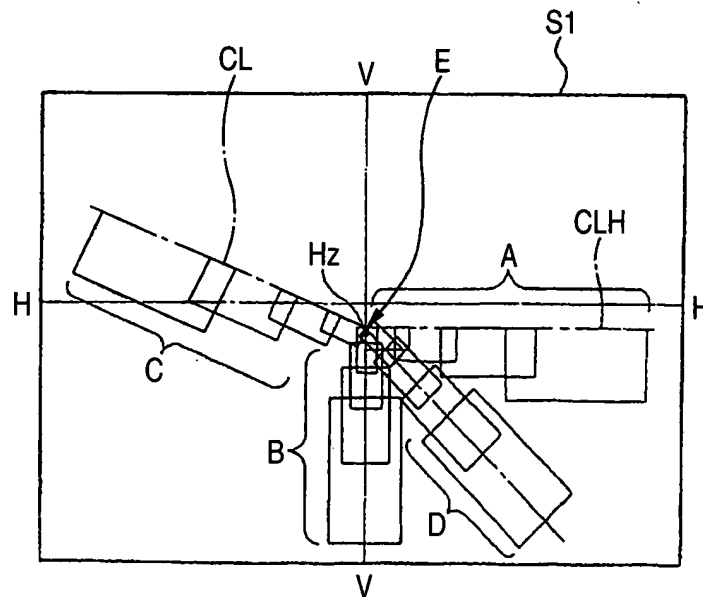


FIG. 4



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FIG. 5

(TUBE LENGTH L = 14.0mm)

TUBE INNER DIAMETER (mm)	TOTAL LUMINOUS FLUX (lm)	JUDGEMENT
0.5	1200	×
1.0	1630	×
1.5	2030	○
2.0	2390	○
2.5	2730	○

FIG. 6

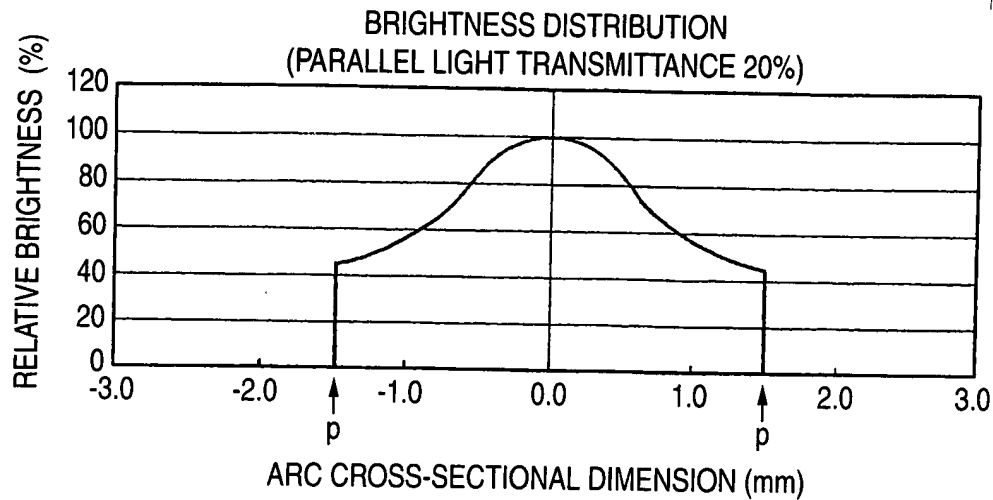
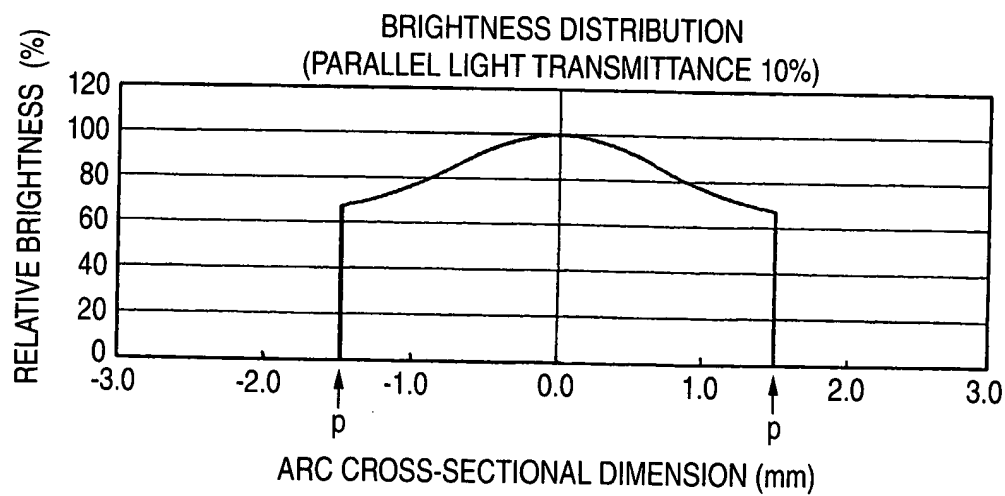
(TUBE INNER DIAMETER = 1.5mm)

TUBE LENGTH (mm)	TOTAL LUMINOUS FLUX (lm)	JUDGEMENT
6.0	2600	○
8.0	2560	○
10.0	2410	○
12.0	2250	○
14.0	2030	○
16.0	1780	×
18.0	1370	×

FIG. 7

TUBE OUTER DIAMETER d (mm)		1.5	2.0	2.5	3.0	3.5	4.0	4.5
TUBE LENGTH L (mm)	4.0	0.37 ×	0.50 ×	0.62 ×	0.75 ×	×	×	×
	6.0	0.25 ×	0.33 ○	0.41 ○	0.50 ○	0.58 ○	0.66 ○	0.75 ×
	8.0	0.18 ×	0.25 ○	0.31 ○	0.37 ○	0.43 ○	0.50 ○	0.56 ×
	10.0	0.15 ×	0.20 ○	0.25 ○	0.30 ○	0.35 ○	0.40 ○	0.45 ×
	12.0	×	0.16 ×	0.20 ○	0.25 ○	0.29 ○	0.33 ○	0.37 ×
	14.0	×	×	0.17 ×	0.21 ×	0.25 ○	0.28 ○	0.32 ×

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FIG. 8**FIG. 9**

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FIG. 10

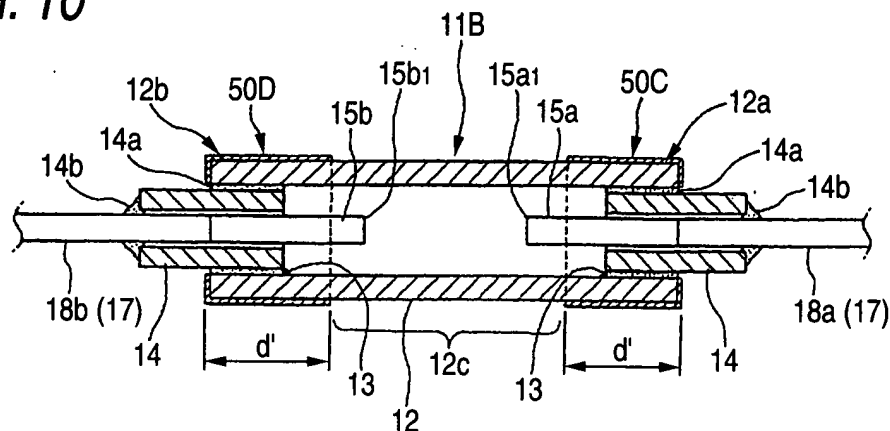


FIG. 11

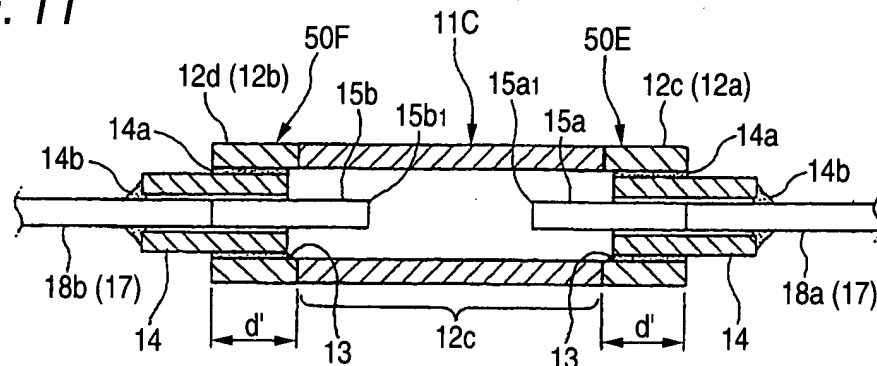
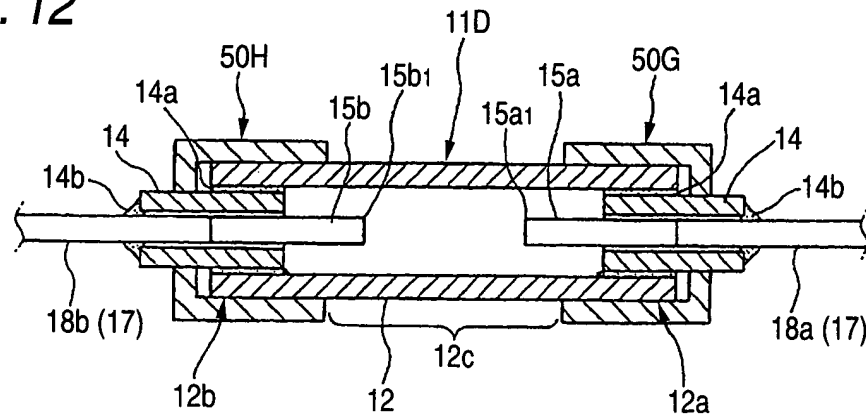


FIG. 12



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FIG. 14

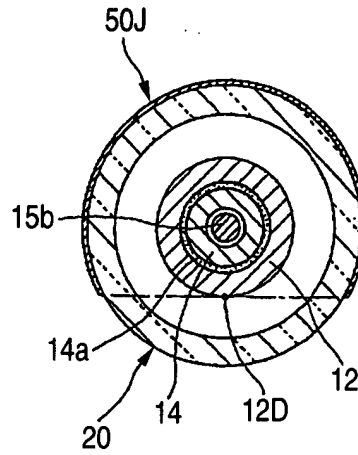
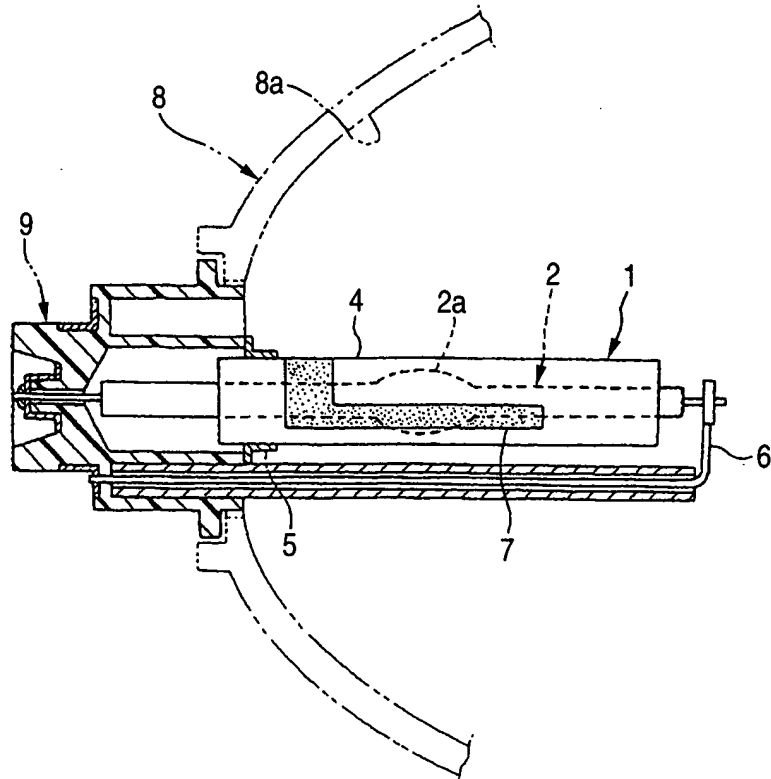


FIG. 15



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FIG. 16

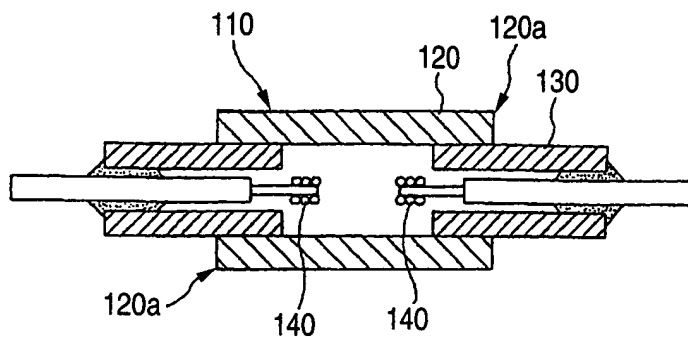
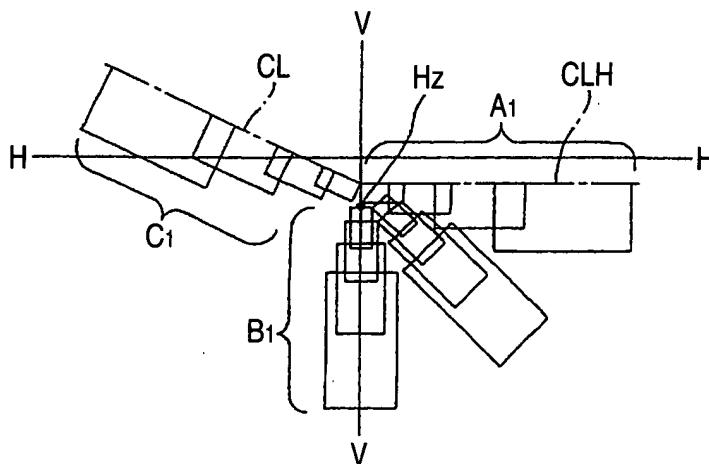


FIG. 17



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FIG. 18